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GLOSSARY OF ACRONYMS AND TERMS

ACRONYMS

AAQS	Ambient Air Quality Standards
AFB	Alternative Formulation Briefing
AHPA	Archaeological and Historic Preservation Act
APE	Area of Potential Effect
BCR	Benefit Cost Ratio
BEA	Bureau of Economic Analysis
BMP	Best Management Practices
BNB	Bayonne-Newark Bay
BOD	Biochemical Oxygen Demand
BRAC	Base Realignment and Closure
CAFRA	Costal Area Review Act
CARP	Containment Assessment and Reduction Program
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
C.F.R.	Code of Federal Regulations
CO	Carbon Monoxide
COHS	Coefficient of Haze
CPDP	Comprehensive Port Development Plan
CPUE	Catch-Per-Unit Effort
CSO	Combined Sewer Overflow
CWA	Clean Water Act
CZM	Coastal Zone Management
dBA	Decibels
DDT	Dichlorodiphenyltrichloroethane
DEIS	Draft Environmental Impact Statement
DGPS	Differential Global Positioning System
DMMP	Dredged Material Management Plan
DO	Dissolved Oxygen
DSEIS	Draft Supplemental Environmental Impact Statement
EA	Environmental Assessment
EFH	Essential Fish Habitat
EIF	Environmental Investment Form
EIS	Environmental Impact Statement
ELMR	Estuarine Living Marine Resource
EQ	Environmental Quality
ER	Engineering Regulation
ESA	Endangered Species Act
EWG	Environmental Work Group



FC	Formerly Connected Tidal water
FEIS	Final Environmental Impact Statement
FHWA	Federal Highway Authority
FMC	Fisheries Management Council
FMP	Fishery Management Plans
FPS	Foot Per Second
FWCAR	Fish and Wildlife Coordination Act Report
GIS	Geographic Information Systems
GNF	General Navigation Features
GPS	Global Positioning System
GRA	Geoarchaeology Research Associates
HAER	Historic American Engineering Record
HAPC	Habitat Areas of Particular Concern
HARS	Historic Area Remediation Site
HEP	Harbor Estuary Program
HM	High Marsh or Saltmeadow
HTRW	Hazardous, Toxic and Radioactive Waste
IM	Intertidal Marsh
K _{oc}	Organic Carbon Partition Coefficient
K _{ow}	Octanol Water Partition Coefficient
LERRD	Lands, Easements, Rights-of-Way, Relocations, and Dredged Material Disposal Areas
LRR	Limited Reevaluation Report
LWRP	Local Waterfront Revitalization Program
LZ	Littoral Zone
MAFMC	Mid-Atlantic Fisheries Management Council
MARMAP	Marine Resources Monitoring, Assessment and Prediction
MHW	Mean High Water
MLW	Mean Low Water
MOA	Memorandum of Agreement
MOTBY	Military Ocean Terminal at Bayonne
MPRSA	Marine Protection, Research and Sanctuaries Act
MSFCMA	Magnuson-Stevens Fishery Conservation and Management Act
NAAQS	National Ambient Air Quality Standards
NBCDF	Newark Bay Confined Disposal Facility
NEAT	Northeastern Automarine Terminal
NED	National Economic Development
NEFMC	New England Fisheries Management Council
NEPA	National Environmental Policy Act
NHL	National Historical Landmark
NHPA	National Historic Preservation Act
NJDEP	New Jersey Department of Environmental Protection



NM	National Monument
NMFS	National Marine Fisheries Service
NO	Nitric Oxide
NOAA	National Oceanic and Atmospheric Administration
NO _x	Nitrogen Oxide
NPL	Noise Pollution Level
NRC	National Research Council
NRHP	National Register of Historic Places
NWI	National Wetlands Inventory
NYCEDC	New York City Economic Development Corporation
NYCLPC	New York City Landmarks Preservation Commission
NYCRR	New York Code of Rules and Regulations
NYD	New York Division
NYNJHNS	New York New Jersey Harbor Navigation Study
NYSDEC	New York State Department of Environmental Conservation
NYSDES	New York State Department of State
O&M	Operation and Maintenance
O ₃	Ozone
ORCA	Ocean Resources Conservation and Assessment
OSE	Other Social Effects
PAH	Polycyclic Aromatic Hydrocarbon
PANYNJ	Port Authority of New York and New Jersey
Pb	Lead
PCB	Polychlorinated Biphenyl
PCI	Panamerican Consultants, Inc.
PDEIS	Preliminary Draft Environmental Impact Statement
PED	Preconstruction Engineering and Design
PEIS	Programmatic Environmental Impact Statement
PM-10	Inhalable Particulates
Ppm	Parts Per Million
Ppt	Parts per thousand
PPV	Peak Particle Velocity
PSI	Pollutant Standards Index
RED	Regional Economic Development
ROD	Record of Decision
RQD	Rock Quality Designation
SAV	Submerged Aquatic Vegetation
SEA	Strategic Environmental Assessment
SEQRA	State Environmental Quality Review Act
SHPO	State Historic Preservation Office
SI&A	Supervision Inspection and Administration
SO ₂	Sulfur Dioxide



SO _x	Sulfur Oxides
SPC	Sub-channel Placement Cell
SPDES	State Pollutant Discharge Elimination System
SPT	Standard Penetration Test
SS	Smoke Shade
STP	Sewage Treatment Plant
TES	Threatened and Endangered Species
TEU	Twenty-Ft Equivalent Units
TL	Total Length
TSS	Total Suspended Solids
USACE	U.S. Army Corps of Engineers
USACE-NJD	U.S. Army Corps of Engineers - New Jersey Division
USACE-NYD	U.S. Army Corps of Engineers - New York Division
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
UST	Underground Storage Tank
VTC	Vessel Traffic Center
VTSNY	Vessel Traffic Service in New York
WRDA	Water Resources Development Act
WRP	Waterfront Revitalization Program
2,3,7,8-TCDD	2,3,7,8 – Tetrachlorodibenzodioxin
2,3,7,8-TCDF	2,3,7,8 - Tetrachlorodibenzofuran



GLOSSARY OF ACRONYMS AND TERMS

TERMS

Abiotic	Non-living.
Adsorption	The process by which ions or molecules present in one phase tend to condense and concentrate on the surface of another phase.
Aesthetics	Related to any perceptible (visual, noise, odor, vibration) environmental factor that if diminished, is generally accepted to result in a reduced standard of living, recreational value, or social benefit.
Age Class	An age grouping of plants or animals according to an interval of years.
Anchorage	An area designated by the USCG for the anchoring of ships in the Harbor.
Ambient Air	The surrounding local air.
Aquatic	Referring to freshwater.
Anadromous	An organism that spends most of its life in the ocean, then returns to spawn in freshwater.
Anthropogenic	Resulting from man-made processes.
Autotrophic	Needing only carbon dioxide or carbonates as a source of carbon and a simple inorganic nitrogen compound for metabolic synthesis.
Ballast Water	Water within a ship to help maintain balance.
Benthic	Referring to bottom dwelling species.
Benthos	The organisms living in or on the bottom surface.
Berth	The water area at the waterfront edge of a wharf, reserved for a vessel;. Sometimes used to refer to the dock or wharf structure.
Best Management Practices	Practices designed to prevent or reduce pollution.
Bioaccumulation	The process whereby chemicals are accumulated in living biological tissues.
Bioavailability	The degree to which a contaminant is available for uptake or absorption by an organism.
Biodiversity	The variety of living creatures in a given area.
Biogenic	Resulting from biological processes.
Biomagnification	The process by which a contaminant becomes more concentrated in biological tissue as it is transferred through higher levels in the food chain.
Biomass	The number of individual organisms (in some area, volume or region) multiplied by the average weight of the individuals.
Biota	The plant and animal life of a particular region.
Biotic	Living.
Bulkhead	A rigid vertical retaining wall built along a waterfront used to retain fill material or for erosion control.



Channel	The buoyed, dredged, and policed fairway through which ships proceed from the sea to their berth or from one berth to another within the Harbor.
Coastal Zone	Area of the ocean near the seashore.
Community	A distinctive collection of species occurring together in a particular habitat.
Cumulative Impacts	Impacts on the environment that result from separate, individual actions that collectively are significant.
Decibel	A unit of sound measurement.
Demersal	Living close to the bottom surface; demersal organisms often swim or rest near the bottom surface.
Dioxin	2,3,7,8-tetrachlorodibenzodioxin (2,3,7,8-TCDD). Dioxin is a by-product in the manufacture of chlorinated phenols and phenoxyherbicides, chlorine bleaching of paper pulp, and combustion of chlorine-containing waste. It is extremely toxic, producing a variety of symptoms including reproductive effects, chloracne, immunotoxicity, liver toxicity, and cancer. The term “dioxin” may also refer to a class of compounds with structures similar to 2,3,7,8-TCDD, but with varying degrees of chlorination.
Dissolution	The act of dissolving.
Dissolved Oxygen	A measure of the amount of oxygen available for biochemical activity in a given amount of water. Adequate levels of dissolved oxygen (DO) are needed to support aquatic life.
Dredging	The removal of bottom sediments in order to deepen or widen a waterway.
Embayment	Formation of a bay.
Endangered Species	A plant or animal that is in danger of extinction throughout all or a significant portion of its range.
Enhancement	Activities conducted in existing marine, aquatic, estuarine, or riparian areas, which improve one or more of the ecological functions and/or the biodiversity of existing, but degraded or impoverished, habitats.
Environmental Impact Statement	A statement of the environmental effects of a proposed action and its alternatives.
Environmental Justice	The fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. Fair treatment means that no group of people, including racial, ethnic, or socioeconomic groups, should bear a disproportional share of the negative environmental impacts.
Epibenthic	Referring to species that live upon the bottom surface.
Essential Fish Habitat	Defined by Congress as “those waters and substrate necessary to fish for spawning, breeding, feeding or growth to maturity.”
Estuary	A semiencllosed coastal embayment where fresh and saltwater mix.



Facies	A rock or stratified body distinguished from others by its appearance or composition.
Fetch	The distance over the water's surface that the wind blows to generate waves.
Fines	The category of sediment particles that includes silts and clays.
Flushing Time	The time required for a mass of water to be discharged from an estuary into the ocean.
Forage Fish	Fish that are consumed by larger, higher trophic level fish.
Furans	A class of chemicals structurally similar to dioxin, except that they lack one oxygen.
GIS (geographic information system)	A database designed to handle geographic data as well as a set of computer operations that can be used to analyze the data.
Groin	Series of small structures built perpendicular to the shore which extend from the beach into the surf zone to limit or prevent erosion.
Guild	A group of species that exploit a class of environmental resources the same way.
Habitat	The area where a plant or animal lives and grows under natural conditions.
Hydrodynamics	The motion and action of water and other liquids.
Hydrology	The science dealing with the study of water on the surface of the land, in the soil and underlying rocks, and in the atmosphere.
Ichthyoplankton	Finfish life history stage, either egg or larvae, that occurs in the water column with limited independent movement (planktonic).
Impoundment	A body of water unnaturally closed.
Inshore	Coastal marine and estuarine environments.
Isobath	A line on a map connecting places of equal depth.
Jetties	Structures built perpendicular to the shore at mouth of a channel or inlet, often used to protect a harbor or channel.
Lead Agency	The public agency that has the principal responsibility for carrying out or approving a project.
Life History	Development of an organism.
Littoral Zone	The region between the high and low tides along the shore, alternately covered by water and exposed to the air.
Macroinvertebrate	For the purpose of this report, invertebrate species greater than ½ inch.
Marine	Referring to saltwater environments.
Mean High Water	The average height of the water at high tide.
Mean Low Water	The average height of the water at low tide.
Mitigation	A means of sequentially avoiding impacts, minimizing impacts, and compensating for remaining unavoidable impacts.
Mud	Wet soft earth composed predominantly of clay and silt-fine material sediments less than 0.074 mm in diameter (Black 1968; Liu 1970).
Natural Resource	A feature of the natural environment that is of value in serving human needs.



National Environmental Policy Act (NEPA)	A law passed by Congress in 1969 to encourage productive and enjoyable harmony between people and their environment.
Neotropical	Of, relating to, or constituting the biogeographic region that extends south, east, and west from the central plateau of Mexico.
New York Bight	An area of the Atlantic Ocean near New York Harbor.
No-Action Alternative	The most likely condition expected to persist or develop in the future if management practices continue unchanged.
Notice of Intent (NOI)	A notice in the federal register of intent to prepare an environmental impact statement on the proposed action.
Nutrient	A substance that promotes growth or provides energy for biological processes; common nutrients are phosphate, nitrate, calcium, and potassium.
Ocean Disposal	Disposal of dredged materials into territorial seas and/or ocean waters, as regulated by the Ocean Dumping Act.
Ocean Waters	Those waters of the open seas lying seaward of the baseline from which the territorial sea is measured, as provided for in the Convention on the Territorial Sea and the Contiguous Zone.
One Hundred Year Flood Plain	The area that has a 1 percent chance of inundation in a given year or has a probability of inundation once every 100 years.
Open-Water Disposal	Disposal of dredged materials into waters of the United States, as defined in the Clean Water Act.
Pelagic	Referring to the ocean water column and the organisms living therein.
Peninsula	A portion of land nearly surrounded by water and connected with a larger body by an isthmus; also, a piece of land jutting out into the water whether with or without a well-defined isthmus.
Phytoplankton	Autotrophic plankton.
Prop Wash	The result of a ship propeller or impeller disturbing bottom sediments.
Raptor	A bird of prey, such as an eagle, owl, or hawk.
Record of Decision (ROD)	An official document in which a deciding official states the alternative that will be implemented from a prepared EIS.
Restoration	Re-establishment of marine, aquatic, estuarine, or riparian resource characteristics and function(s) at a site where they have ceased to exist, or exist in a substantially degraded state.
Salinity	The total amount of solid material in grams contained in 1 kg of water when all the carbonate has been converted to oxide, the bromine and iodine replaced by chlorine, and all the organic matter completely oxidized.
Salt Marsh	Coastal communities periodically drained and flooded by tidal waters and characterized by a muddy substrate.
Scoping	The ongoing process to determine public opinion, receive comments and suggestions, and determine issues during the environmental analysis process



Sediment	Small particles of rock debris or organic materials deposited by wind, water, or ice.
Submerged Aquatic Vegetation	Rooted, vascular, flowering plants, that, except for some flowering structures, live and grow below the water surface.
Sublittoral	The seashore zone below the littoral zone, not exposed to the air at low tide.
Substrate	Material making up the base on which an organism lives or to which it is attached.
Suspended Particle	Sediment or organic matter within the water column.
Terrestrial	Pertaining to the upland or inland environment.
Territorial Seas*	The belt of seas measured from the baseline (mean sea level and the imaginary line between Rockaway Point and Sandy Hook) along that portion of the coast which is in direct contact with the open sea, in the line marking the seaward limit of inland waters, and extending seaward a distance of 3 miles.
Threatened Species	Those plants and animal species likely to become endangered throughout all or a specific portion of their range within the foreseeable future as designated by the US Fish and Wildlife Service under the Endangered Species Act of 1973.
Tide	A long wave caused mainly by the gravitational attraction between the Earth, moon, and sun, and by the Earth's rotation. Movements of these long waves cause the level of water to rise (high tide) and fall (low tide).
Trace Elements	Those elements generally present in natural water samples at concentrations of less than 1 milligram per liter.
Trophic Level	The feeding position occupied by a given organism in a food chain, measured by the number of steps it is removed from producers.
Turbidity	Reduced visibility in water due to the presence of suspended particles.
Watershed	The entire region drained by a waterway.
Wetlands	Any non-tidal or tidally influenced areas meeting the state and Federal criteria (typically the presence of hydric soils, hydrologic indicators, and hydrophytic vegetation) but including littoral zones, tidal flats and mudflats.
Unconsolidated Sediments	Those sediments that have not been compressed into a firm consistency.
Zooplankton	Planktonic animals.

* USEPA Region II-Draft definitions language, Patricia Barnwell Pechko (12 April 1995)



Metric Conversion Table			
QUANTITY	U.S. UNIT	MULTIPLY BY	TO GET METRIC EQUIVALENT
Length	Inches (in.)	25.4	Millimeters (mm)
		0.0254	Meters (m)
	Feet (ft)	0.3048	Meters (m)
	Miles (mi)	1.6093	Kilometers (km)
Area	Square inches (in ²)	6.4516 x 10 ⁴	Square meters (m ²)
	Square feet (ft ²)	0.092903	Square meters (m ²)
	Acres	4046.9	Square meters (m ²)
		0.40469	Hectares (ha)
		0.0040469	Square kilometers(km ²)
	Square miles (mi ²)	2.590	Square kilometers(km ²)
Volume	Gallons (gal)	3.7854	Liters (L)
		0.0037854	Cubic meters (m ³)
	Million gallons (10 ⁶ gal)	3785.4	Cubic meters (m ³)
	Cubic feet (ft ³)	0.028317	Cubic meters (m ³)
	Cubic yards (yd ³)	0.76455	Cubic meters (m ³)
Volume Time (Flow)	Cubic feet per sec (ft ³ /s)	28.317	Liters per second (L/s)
		0.028317	Cubic meters per sec (m ³ /sec)
	Gallons per minute (gal/min)	0.06309	Liters per second (L/s)
		6.309 x 10 ⁻⁵	Cubic meters per sec (m ³ /sec)
	Million gallons per day (mgd)	0.043813	Cubic meters per sec (m ³ /sec)
Water Usage	Acre-feet per acre	0.3048	Cubic meters per square meter (m ³ /m ²)
Mass	Pounds (lbs)	0.45359	Kilograms (kg)
		454000	Milligrams (mg)
	Tons (2000 lbs)	907.18	Kilograms (kg)
Temperature	Degrees Fahrenheit (°F)-32/1.8		Degrees Celsius (°C)
Specific Capacity	Gallons per minute per foot drawdown	12.419	Liters per minute per meter drawdown

